PMOC MONTHLY REPORT

Honolulu Rail Transit Project

City and County of Honolulu Honolulu Authority for Rapid Transportation (HART) Honolulu, HI

July 2013 (FINAL)

PMOC Contract Number: DTFT60-09-D-00012 Task Order No. 2: Honolulu Rail Transit Project

Project No: DC-27-5140 Work Order No. 1

OPs Referenced: OP 1 and 25

Jacobs Engineering Group, Inc., 501 North Broadway, St. Louis, MO 63102

Tim Mantych, P.E., (314) 335-4454, tim.mantych@jacobs.com

Length of Time Assigned: Five Years (November 18, 2009 through November 17, 2014)

TABLE OF CONTENTS

TAB	LE OF (CONTENTS	i
LIST	OF AP	PENDICES	i
1.0	EVEC	TIPINE CLIMALA DV	2
1.0	1.1	Project Description	
	1.1	Project Status	
	1.3	PMOC Issues or Concerns	
	1.4	Core Accountability Items	
2.0	BODY	Y OF REPORT	8
	2.1	Grantee's Capabilities and Approach	8
		2.1.1 Technical Capacity and Capability (TCC)	
		2.1.2 Project Controls for Scope, Quality, Schedule, Cost, Risk, and Safety	8
		2.1.3 Compliance with Applicable Statutes, Regulations, Guidance and FTA	
		Agreements	10
	2.2	Project Scope	11
		2.2.1 Status of Design/Construction Documents	11
		2.2.2 Status of Third-Party Agreements	
		2.2.3 Delivery Method	
		2.2.4 Core Systems and Vehicle Status	
	2.3	Project Management Plan and Sub-Plans	
	2.4	Project Schedule Status	
	2.5	Project Cost Status	
		2.5.1 Standard Cost Category (SCC)	
		2.5.2 Contingency	
		2.5.3 Funding Sources	
	2.6	Project Risk	
	2.7	Action Items	22
APPI	ENDICE	ZS	. 24
		LIST OF APPENDICES	
Appe	ndix A:	Acronym List	
	ndix B:	Contract Status	
11	ndix C:	Bidding Schedule	
	ndix D:	Final Design Approval Letter Requirements	
	ndix E:	Core Accountability Items	
	ndix F:	Project Overview and Map (Transmitted as a separate file)	
Appe	ndix G:	Safety and Security Checklist (Transmitted as a separate file)	

i

1.0 EXECUTIVE SUMMARY

1.1 Project Description

- **General Description:** The Project is a 20-mile-long elevated fixed guideway rail system along Oahu's south shore between East Kapolei and Ala Moana Center. This Project is based on the Airport Alignment, which includes 21 stations. The alignment is elevated, except for a 0.6-mile at-grade portion at the Leeward Community College station. The Project is planned to be delivered in four guideway segments.
 - Segment I (West Oahu/Farrington Highway) East Kapolei to Pearl Highlands (7 miles/7 stations)
 - Segment II (Kamehameha Highway) Pearl Highlands to Aloha Stadium (4 miles/2 stations)
 - o Segment III (Airport) Aloha Stadium to Middle Street (5 miles/4 stations)
 - Segment IV (City Center) Middle Street to Ala Moana Center (4 miles/8 stations)
- **Length:** 20 miles
- No. of Stations: 21
- Additional Facilities: Maintenance and Storage Facility and parking facilities
- **Vehicles:** 80 vehicles
- **Ridership Forecast:** Weekday boardings 99,800 (2020); 114,300 (2030)

1.2 Project Status

(Note: Status of all contracts is provided in Appendix B.)

- Construction and Environmental Work HART issued a suspension of construction work on August 24, 2012 for all ground-disturbing activities after a ruling by the Hawaii State Supreme Court requiring completion of the Archaeological Inventory Survey (AIS). Final Design work is still proceeding on all contracts that have been awarded to date. HART continues to analyze cost and schedule ramifications. Their analysis indicates the delay will cost between \$7 and \$10 million per month. Delay is anticipated to extend nine to twelve months, but may be longer depending on the length of SHPD review and satisfaction of permitting requirements. FTA and HART have developed a proposed schedule for completion of the additional environmental evaluation required by the federal court ruling. HART has indicated it would like to complete that work within the construction suspension period related to the state court case. However, that schedule is ambitious given the amount of work and reviews that must be completed. As a result of an injunction, HART cannot acquire real estate or perform any construction in the City Center Segment, which may have an effect on overall project schedule.
- The following table presents the status of the current design and construction contracts:

Contract	Contractor	Contract Value	Expended	Status
West Oahu /Farrington Highway (WOFH) Design- Build (DB) Contract	Kiewit	\$538.9M	\$176.5M	Construction suspended; design activities ongoing
Kamehameha Highway (KH) Guideway DB Contract	Kiewit	\$376.3M	\$82.8M	Construction suspended; design activities ongoing
Maintenance and Storage (MSF) DB Contract	Kiewit/Kobayashi Joint Venture	\$215.3M	\$52.8M	Construction suspended; design activities ongoing
Core Systems Contract	Ansaldo Honolulu Joint Venture (AHJV)	\$573.8M	\$38.4M	Definitive design activities ongoing.
Airport Guideway and Utilities Design	AECOM	\$39.1M	\$19.1M	Interim design activities ongoing
City Center Guideway and Utilities Design	AECOM	\$43.9M	\$8.1M	PE activities ongoing
Farrington Station Group Design	HDR/HPE, Inc.	\$8.0M	\$7.5M	HDR submitted final plans; contract closeout anticipated in June 2013.
West Oahu Station Group	URS	\$7.8M	\$3.8M	PE activities ongoing
Kamehameha Station Group Design	Anil Verma Associates, Inc.	\$8.7M	\$3.2M	Initial design workshops ongoing
Airport Station Group Design	AECOM	\$10.1M	\$3.3M	PE activities ongoing
Elevators and Escalators	TBD	TBD	\$0M	Procurement is ongoing. RFP Part 2 was issued in December 2012. Protest was received on June 18, 2013 and is under reviews by HART.

HART has established design review milestones according to the following stages of design development:

- (1) Definitive Design (or Preliminary Engineering) Intended to verify that the concepts proposed meet HART Concept Documents (or provide substantiated reason for change), and to verify that design complies with the Contract requirements.
- (2) Interim Designs Intended to resolve conflicts and unresolved comments from the Definitive Design and prior to Final Design. Workshops, meetings and "over-the-shoulder" reviews facilitate interim design reviews by HART.
- (3) Pre-Final Design (90% design)
- (4) Final Design (100% design)

The following table provides a summary of Design Percent Complete on all contracts provided for the project:

Item	Contract Number	Final Design Contracts	Contractor/ Consultant	Percent Complete
1	DB-120	West Oahu Farrington Highway Guideway Project (WOFH)	Kiewit	96%
2	DB-320	Kamehameha Highway Guideway Project (KHG)	Kiewit	94%
3	DB-200	Maintenance and Storage Facility (MSF)	Kiewit/Kobayashi JV	98%
4	DBOM-920	Core Systems Contract (CSC)	Ansaldo Honolulu JV	22%
5	FD-430	Airport Segment Guideway and Utilities Final Design	AECOM	50%
6	FD-530	City Center Segment and Utilities Final Design	AECOM	30%
7	FD-140	West Oahu Station Group (WOSG)	URS	65%
8	FD-240	Farrington Highway Station Group (FHSG)	HDR	99%
9	FD-340	Kamehameha Highway Station Group (KHSG)	Anil Verma	35%
10	FD-245	Pearl Highlands Parking Structure/Bus Transit Center	Pending	10%
11	FD-440	Airport Station Group Design	AECOM	35%
12	FD-540	Dillingham Station Group Design	To Be Determined	10%
13	FD-545	Kaka'ako Station Group Design	To Be Determined	10%
14	FD-600	UH West Oahu Park and Ride/Ho'opili Station Design	To Be Determined	10%
15	MI-930	Elevators and Escalators	To Be Determined	10%

The Total Design Percent Complete is approximately 47.4% as of May 2013. Preliminary Engineering was completed by the GEC. Final Design work and engineering activities are still proceeding on all other contracts that have been awarded to date.

1.3 PMOC Issues or Concerns

The following key issues or concerns have been identified:

• The PMOC had expressed some concern with the adequacy of the grantee's ability to forecast costs for the existing Design-Build (DB) contracts. The grantee's Estimate at Completion (EAC) did not accurately provide an assessment of the contract costs. However, HART has developed a detailed methodology for forecasting use of contingency. The PMOC has noted that there is still a discrepancy in how HART will handle potential future changes without enough information to prepare detailed cost estimates. HART held an internal workshop and developed an approach and presented their revised methodology to PMOC on July 11, 2013. The revised analysis included low and high ranges for all potential identified changes. HART also attached a date of expected expenditure for each change. This data was plotted on the contingency drawdown curve to show the best and worst cases.

The PMOC does have some concern with the adequacy of the remaining contingency given the anticipated costs due to the project delays. The PMOC will continue to monitor the forecast drawdown of contingency to determine whether recommendations for primary or secondary mitigations should be implemented.

• The grantee must execute a license agreement with the Department of Hawaiian Homelands (DHHL) for the MSF on the Navy Drum Site. The PMOC has recommended that the License Agreement be provided to the FTA and PMOC for review prior to execution. A Request for Right of Entry (ROE) for construction was approved by the DHHL Board. The ROE allows access to Navy Drum Site for construction until the

property acquisition occurs or the License Agreement is finalized. It is anticipated that the license agreement may be finalized in July 2013.

- An interim HDOT State Oversight Agency (SOA) Project Manager has been working part-time since April 2011. Given the status of this Project, it is critical that the permanent SOA Project Manager be identified as soon as possible. HDOT revised the job posting to eliminate the Professional Engineer license requirement to broaden the pool of applicants and the job posting is open until filled. However, as of July 2013 HDOT will interview three potential applicants who are interested in the position.
- HDR's acquisition of InfraConsult LLC (HART's Program Management Consultant) has created conflict of interest issues for HART since HDR is currently under contract to complete design of FHSG. HART submitted a White Paper on Organizational Conflict of Interest to FTA that discussed measures to mitigate this conflict, which includes several critical aspects of the project (quality, safety/security, and project controls). There will no longer be a conflict of interest issue after April 30, 2013 when HDR anticipates completing Final Design and issuing a bid-ready submittal for construction to HART. HART proposes selecting another design consultant to perform construction administration for FHSG. HDR has submitted final plans, which are under review by HART. It is anticipated that closeout of their contract will occur in August 2013 to complete remaining change orders.
- The PMOC had recommended that HART engage a consultant to perform independent cost estimates for the remaining contract packages, including any repackaging efforts. HART has enlisted a subconsultant under the Program Management Consultant contract to provide these services.
- HART anticipates re-baselining their budget and Master Project Schedule (MPS) in October 2013, once they have certainty that construction activities will be resuming.

1.4 Core Accountability Items

Core Accountability Items					
Project Status: FFGA		Original at FFGA:	Current Estimate:		
Cost	Cost Estimate	\$5,122,000,000	\$5,122,000,000		
	Unallocated Contingency	\$101,900,000	\$101,900,000		
Contingency	Total Contingency (Allocated plus Unallocated)	\$643,600,000	\$430,000,000		
Schedule Revenue Service Date		1/31/2020	1/31/2020		
Total Project Percent	Based on Expenditures	16.3%			
Complete Based on Earned Value		13.1% (N	May 2013)*		

N	C4-4	C
Major Issues	Status	Comments/Planned Action
Technical Capacity and Capability (TCC) Issues	PMOC had recommended that HART engage a consultant to perform independent cost estimates for the remaining contract packages, including any repackaging efforts.	HART has enlisted a subconsultant under the Program Management Consultant contract to provide these services.
Potential Cost & Schedule Delays	HART continues to analyze the cost and schedule ramifications resulting from the Hawaii Supreme Court Archeological Inventory Survey (AIS) ruling. The analysis indicates that the delay will cost between \$7 and \$10M per month, and it is anticipated to be a nine to twelve month period. Delay may be longer depending on the length of SHPD review and satisfaction of permitting requirements.	HART and PMOC held a workshop on April 11, 2013 to discuss potential impacts to the schedule. Activities related to the Federal and State lawsuits have been added to the schedule. MPS assumes construction will resume in September 2013. HART is analyzing delays to determine their effect on key milestones. It is the PMOC's professional opinion that HART may need to identify measures to mitigate a delay to the FFGA RSD if suspension of construction extends significantly beyond December 2013. The PMOC does have some concern with the adequacy of the remaining contingency given the anticipated costs due to the project delays. The PMOC will continue to monitor the forecast drawdown of contingency to determine whether recommendations for primary or secondary mitigations should be implemented.

Major Issues	Sta	itus	Comments/Planned Action
Remaining Construction Contracts General Excise Tax (GET)	HART is in the process of revising the Contract Packaging Plan. Several contract packages are being combined to maximize economies of scale and reduce interface needs between design and construction contractors to achieve both cost and schedule benefits. GET receipts continue to be an issue.		HART/PMOC continue to hold monthly breakout sessions to review changes being considered for each contract. Discussions focus on opportunities to reduce costs and accelerate contract-scheduled activities to attain key milestones earlier than targeted. Representatives from the State Department of Taxation are appeared before the HART Board on May 16, 2013 to answer questions regarding the distribution of GET receipts. In addition, there is movement in the state legislature to call for an audit of the State Department of Taxation with regard to disbursement of the GET revenues. HART has requested monthly updates from the state on the GET revenues.
Post-Rod Changes Safety and Security Certification Manager for Core Systems Contract	HART is consider proposed design of require additional review. HART pla information on each change for FTA to level of documents assess impacts and mitigation measure. Ansaldo Honolulu (AHJV) must prove site Sofety and Society and So	hanges that may environmental and to submit the proposed of determine the ation required to a subsequent es. Joint Venture ride a full-time, on	The first proposed change involved temporary occupancy and De Minimis impact findings for Neal Blaisdell Park. This proposed change is under review by the FTA. Information on other proposed changes will not be available until July 2013 or later. HART has rejected AHJV's proposed candidate for this position. HART is in discussions with AHJV
Data of Newt Quentouly Meetings	site Safety and Sectific CSC.	curity Manager for	on how to address the Safety and Security Manager position. TBD
Date of Next Quarterly Meeting:			עעו

^{*}Percent Complete Based on Earned Value is less than Percent Complete Based on Expenditures primarily due to suspension of construction activities. It is anticipated that this variance can be mitigated once construction activity can resume.

2.0 BODY OF REPORT

2.1 Grantee's Capabilities and Approach

2.1.1 Technical Capacity and Capability (TCC)

HART has gone through considerable organizational changes since the FFGA was executed in December 2012. Project staff has begun reviewing their numerous plans and procedures to determine whether updates are required to reflect these changes. The PMOC met with HART to discuss the timing of each plan that will require updating as a result of the organization and procedural changes that have occurred.

Following are some key positions that are vacant and must be filled by HART or through their PMC:

- Independent cost estimator Pending; will be filled through PMC. HART intends to use the GEC to provide independent cost estimate services until the GEC re-compete process is completed or until the PMC fills the position.
- Safety and Security Certification Manager Recruiting in progress. HART may select a candidate from the pool of HDOT candidates they don't hire for the HDOT Program Manager position or fill the position with the PMC
- Configuration Manager Newly identified position; HART started the recruitment process in July 2013 and plans on filling the configuration management position prior to construction starting in September 2013.

HART intends to issue a Request for Proposals for a new General Engineering Consultant (GEC) contract in late July 2013. The scope or work for the new GEC would be modified significantly from that for the current GEC contract and would be developed to fit within the project budget more effectively.

2.1.2 Project Controls for Scope, Quality, Schedule, Cost, Risk, and Safety

Project Controls for Scope

- As a result of project delays, HART is in the process of revising the Contract Packaging Plan (CPP). Several contract packages are being combined to maximize economies of scale and reduce interface needs between design and construction contractors to achieve both cost and schedule benefits.
- Despite the AIS delay, HART is implementing measures to maintain the March 30, 2019 full revenue service date (RSD), 10 months ahead of the January 31, 2020 FFGA target. This RSD is the milestone date reflected in the FFGA Master Project Schedule (MPS) and is consistent with all FFGA request submittals. The latest update of the MPS does not indicate any delays to the Interim Opening or RSD at this time if construction were to resume in September 2013. HART is to analyze what-if scenarios to assess impacts to the Interim Opening and RSD if the suspension of construction extends beyond September 2013. It is the PMOCs professional opinion that any delays that extend beyond December 2013 may have an impact on the RSD.

Schedule

- **Preliminary Engineering (PE):** FTA approved entrance into PE on October 16, 2009
- **Record of Decision (ROD):** ROD was issued on January 18, 2011.
- **Final Design (FD):** FTA approved entrance into FD on December 29, 2011.
- Full Funding Grant Agreement (FFGA): Executed on December 19, 2012.
- Grantee Target Start of Revenue Operations for Full Alignment: March 2019
- FFGA Revenue Service Date (RSD): January 31, 2020

Cost

 HART and the PMOC continue to hold a monthly breakout session to review changes being considered for each contract. Breakout session discussions focus on opportunities to reduce costs and accelerate contract-scheduled activities to attain key milestones earlier than targeted.

Quality

Following is a summary of HART Quality Management staff activities:

- Reviewed QAP Revision 5 for WOFH and KHSG
- Reviewed Integrated Test Plan (ITP) for WOFH, KHG, and MSF
- Completed Draft Source Inspection (SI) and First Article Inspection (FAI) Plan for MSF
- Completed the following audits:
 - Reviewed AHJV corrective and preventative actions of 4 nonconformances and 5 observations on QA, and 1 observation on Safety and Security found. The PMOC recommended the Safety and Security observation issued by HART QA be changed to a nonconformance since AHJV has not complied with Safety and Security requirements.
- HART intends to perform an Interim Buy America Audit of the rail vehicles by the end of the year, after AHJV has secured purchase orders with the majority of their suppliers. The PMOC informed HART that Virginkar and Associates, a subconsultant to the PMOC, is available if needed to assist them with the planning of the review given their experience in performing similar audits.

System Safety and Security

- The PMOC is planning a Safety and Security Management Plan (SSMP) Adherence Review in September 2013. HART is in the process of updating several of their procedures and management plans including the SSMP and SSCP. These updates are necessary due to the organizational changes enacted by the Executive Director and the contract packaging changes that are being planned. HART submitted a revised update to the SSMP on July 1, 2013 and anticipates receiving the revised SSCP in July 2013. The PMOC will evaluate and report on the current status of HART's safety and security progress eight months after the FFGA was awarded to HART.
- Ansaldo Honolulu Joint Venture (AHJV) provided an interim part-time, on site Safety
 and Security Certification Manager (SSCM) for the CSC in April 2013 with as needed
 support from Italy. AHJV submitted a replacement SSCM to HART for approval in June
 2013. HART did not approve the replacement SSCM and HART is allowing him to work
 until an acceptable SSCM is approved by HART in the next few months. HART wants
 the interim part-time SSCM to be the replacement SSCM but he is not available. HART

- is not in compliance with PMOC recommendations made in the OP 22 Report that a full time, on site SSCM is required.
- The Safety and Security Certification Manager (SSCM) position that reports to the HART CSSO remains vacant, with certification efforts expected to increase in the near future. HART anticipated the SSCM starting on July 1, 2013. However, the potential SSCM candidate declined in June 2013 and HART is searching for another potential candidate. HART may select a candidate from the pool of HDOT candidates they don't hire for the HDOT Program Manager position or fill the position with the PMC.
- FTA approved HDOT's System Safety and Security Program Standards (SSSPS) in June 2013, which will become an important part of HDOT's comprehensive safety and security assessment
- An interim HDOT State Oversight Agency (SOA) Project Manager has been working part-time since April 2011. HDOT is having difficulty finding a full-time SOA Project Manager and there are no indications when a full time person will be hired. HDOT revised the job posting to eliminate the Professional Engineer license requirement to broaden the pool of applicants and the job posting is open until filled. However, as of July 2013 HDOT may interview three potential applicants who are interested in the position.
- HART received a written response from the United States District Court Judge on May 3, 2013 accepting the proposed noise and security mitigation to be implemented.

2.1.3 Compliance with Applicable Statutes, Regulations, Guidance and FTA Agreements

National Environmental Policy Act (NEPA)

- The ROD was issued on January 18, 2011.
- Attachment A to ROD, dated January 2011, listed 197 mitigations to which the Project is committed. These mitigations deal with subjects such as real estate acquisitions, easements, relocations, landscaping, design details, protection of historic and environmentally-sensitive resources, noise abatement, lighting, safety, security, public health, and the treatment of Hawaiian iwi. The grantee is committed to implementing all mitigation measures specified by the ROD and all terms of the Project's Programmatic Agreement (PA), also instituted in January 2011. The grantee has hired a Kako'o Consultant to ensure compliance with the PA. While the actual implementation of many of the detailed mitigations will occur during Final Design and construction, the grantee has included requirements for their design in RFPs that have already been issued. Thus, the grantee has contractual assurances that the ROD's requirements will be met.
- Construction and Environmental Work HART issued a suspension of construction work on August 24, 2012 for all ground-disturbing activities after a ruling by the Hawaii State Supreme Court requiring completion of the Archaeological Inventory Survey (AIS). Final Design work is still proceeding on all contracts that have been awarded to date.
 - Proposed Design Changes HART is considering some design changes that may require additional environmental review. HART plans to submit information on each proposed change for FTA to determine the level of documentation required

to assess impacts and subsequent mitigation measures. The first proposed change involved temporary occupancy and De Minimis impact findings for Neal Blaisdell Park. This proposed change is under review by the FTA. Information on other proposed changes will not be available until July 2013 or later.

2.2 Project Scope

The Project is a 20-mile fixed guideway rail system along Oahu's south shore between East Kapolei and Ala Moana Center. This Project is based on the Airport Alignment, which includes 21 stations. The alignment is elevated, except for a 0.6-mile at-grade portion at the Leeward Community College Station. The Project is planned to be delivered in four guideway segments:

- Segment I (West Oahu/Farrington Highway) East Kapolei to Pearl Highlands (7 miles/7 stations)
- Segment II (Kamehameha Highway) Pearl Highlands to Aloha Stadium (4 miles/2 stations)
- Segment III (Airport) Aloha Stadium to Middle Street (5 miles/4 stations)
- Segment IV (City Center) Middle Street to Ala Moana Center (4 miles/8 stations)

The alignment will average a total of 99,800 weekday boardings at the Revenue Service Date in the year 2020 and 114,300 weekday boardings in the year 2030. It will provide two significant areas with potential for Transit-Oriented Development, one near the Airport and one in the surrounding industrial areas. The initial fleet will include 80 "light metro" rail vehicles.

2.2.1 Status of Design/Construction Documents

The status of all contracts is provided in Appendix B. The Total Design Percent Complete is approximately 47.4% as of June 2013. Final Design work and engineering activities are still proceeding on all contracts that have been awarded to date. The table in Section 1.2 provides a summary of Design Percent Complete on all contracts provided for the project.

The following table provides a summary of VE results provided for the project:

Source	No. of Proposals Received	Estimated Value (M)	No. of Proposals Accepted	Estimated Value (M)
VE Workshop for Stations	30	\$318.5	26	\$104.1
ATC Proposals – WOFH DB Contract	29	\$85.4	13	\$60.5
ATC Proposals – KH DB Contract	16	\$29.0	7	\$18.3
ATC Proposals – MSF DB Contract	11	\$16.1	5	\$2.7
ATC Proposals – CSC	41	\$35.6	15	\$15.5
VE Workshop for Airport & City Ctr.	27	\$225.6	13	\$109.2
TOTAL	154	\$710.2	79	\$310.3

^{*}Total includes "conditionally accepted" Alternate Technical Concept (ATC) proposals

The PMOC continues to monitor the project to confirm that all VE recommendations are reviewed by the grantee and that those that are accepted are implemented accordingly. There are currently 79 VE proposals that have been accepted by HART. These proposals have been incorporated in whole or in part where applicable to the current level of design.

2.2.2 Status of Third-Party Agreements

The following table provides the status of Third Party Agreements for the project:

Agreement	Completion	Target	Section	Status
University of Hawaii (UH) Master	Pending	July 2013	WOFH,	Final negotiations are underway.
Agreement			KHG,	
			City	
			Center	
Leeward Community	Pending	July 2013	WOFH	In negotiations
College (LCC) Sub-agreement	1 onding	5 dily 2 5 1 5	*** 0111	
UH West O'ahu (UHWO)	Pending	July 2013	WOFH	In negotiations
Sub-agreement	1 onding	0017 2018	*** 0111	
Department of Land and Natural	Pending	July 2013	WOFH	Will go before the Land Board in July.
Resources (DLNR)	renamg	vary 2013	*** 0111	will go cerore the Bana Board in sary.
Department of Education Master	Feb 8	, 2011	WOFH	Executed
Agreement and Consent to	1000	, 2011	,, 0111	Executed
Construct				
DR Horton Agreement for	Mar 7	, 2012	WOFH	Executed
Construction	1,141,	, 2012	,, 0111	Executed
DHHL Master Agreement	Mar 10	0, 2010	WOFH,	Executed
		-,	MSF	
DHHL Consent to Construct	Dec 1	, 2011	WOFH,	Consent to construct in place.
		,	MSF	F-m
DHHL License or Property	Pending	July 2013	WOFH,	License agreement awaiting City Council
Transfer	8	J J	MSF	approval.
HDOT Master Agreement	Oct 31	, 2011	WOFH	Executed
HDOT Joint Use &		, 2012	WOFH	Executed
Occupancy (JU&O)	1	, -		
Sub-agreement				
UH Urban Garden Sub-agreement	Pending	July 2013	KHG	In negotiations
HDOT Master Agreement for	Pending	July 2013	KHG,	Decision made to combine KGH, Airport
KHG, Airport and City Center		, and the second	Airport,	and City Center into one Master
			City	Agreement. Draft of the agreement
			Center	submitted to HDOT for their review.
				Once completed, City Council approval
				will be required.
HDOT JU&O Sub-agreement	Pending	August 2013	KHG	Will complete after HDOT Master
				Agreement is completed.
Aloha Stadium / Department of	Pending	July 2013	KHG	Revised MOU scheduled to go to Stadium
Accounting & General				Board and DLNR Land Board in July.
Services (DAGS)				
U.S. Navy / General Services	Pending	N/A	Airport	15 Easements were forwarded to regional
Administration (GSA)				command for approval.
U.S. Post Office Honolulu	Pending	February	Airport	Design agreed to by Post Office. Will
Processing Center		2014		begin the guideway easement process
				once all property requirements identified.
Federal Aviation	Pending	February	Airport	As design progresses a determination will
Administration (FAA) Master		2014		be made if an agreement is required.
Agreement				
HDOT JU&O Sub-agreement	Pending	March 2014	Airport	Will complete after Master Agreement is
				completed.

Agreement	Completion	Target	Section	Status
HDOT JU&O Sub-agreement	Pending	July 2014	City	Will complete after Master Agreement is
			Center	completed.
Honolulu Community	Pending	July 2014	City	Please see UH Master Agreement.
College (HCC) Sub-agreement			Center	On hold due to federal order.
Federal Court House/GSA	Pending	Oct 2014	City	On hold due to federal order.
			Center	
HI Community Development	Pending	Oct 2014	City	Awaiting final design requirements for the
Agreement (HCDA)			Center	guideway. On hold due to federal order.
DAGS	Pending	Oct 2014	City	Awaiting final design requirements for the
			Center	guideway. On hold due to federal order.

The PMOC has monthly "break out" sessions with HART to discuss the status of Third Party Agreements. Pending Third Party Agreements are not currently having an effect on the MPS. However, there are several agreements that will become critical to the MPS if not executed before or shortly after construction resumes. These agreements have been identified on HART's AIS Roadmap.

2.2.3 Delivery Method

As noted above, HART is in the process of revising the Contract Packaging Plan (CPP). Several contract packages are being combined to maximize economies of scale and reduce interface needs between design and construction contractors to achieve both cost and schedule benefits.

Construction of the project guideway is to be implemented in four segments. The method of delivery for the four guideway segments is as follows:

- Segment I East Kapolei to Pearl Highlands DB
- Segment II Pearl Highlands to Aloha Stadium DB
- Segment III Aloha Stadium to Middle Street Station DBB
- Segment IV Middle Street Station to Ala Moana Center DBB

HART is combining Segments III and IV into a single guideway construction contract.

2.2.4 Core Systems and Vehicle Status

Ansaldo Honolulu Joint Venture (AHJV) will design, furnish, install, test, and commission passenger vehicles, operating systems, auxiliary vehicles and equipment, and appurtances, in support of incremental opening of the System. The following table provides a status of the Core Systems and Vehicle activities associated with the project:

Core System Description	Status
Core System - General	
Notice to Proceed (NTP) Delay Claim	AHJV has asserted they have a 9-month delay in
	starting work due to CSC protest. HART has denied
	this delay. This issue is in dispute.

Core System Description	Status
Hawaiian Electric Company (HECO) Estimated Traction	HART to provide Hawaiian Electric Company
Power Demand	(HECO) with AHJV simulations to estimate power
	demand based on actual operation scenarios. AHJV
	finalized consumption estimate. AHJV submitted
	revised simulations for fail over criteria and
	discussions with HECO are ongoing.
Fare Collection System	HART is reviewing possibility of installing fare gates
System Performance Design	There are some concerns with AHJV's method for
	calculating headways, round trip times, fleet size and
	system capacity. These issues will be vetted once
	more information on operations modeling is
	available.
Core System Train Control/SCADA Subsystem	
Operational Control Center (OCC) Layout	Operational Control Center (OCC) layout may be
	smaller than the area originally proposed to
	accommodate equipment. Major issues resolved but
M. IEL O. C.	discussions with AHJV ongoing
Mixed Fleet Operation	AHJV has issues with installing redundant systems
	for future four-car train consist operation. HART is
	considering start of revenue service with 4-car trains
Maintenance Of Way (MOW) Valiate Automatic Train	that would mitigate this issue.
Maintenance Of Way (MOW) Vehicle Automatic Train	HART considering Automatic Vehicle Indication
Control (ATC) Capabilities	(AVI)/Automatic Vehicle Location (AVL)
Core System Traction Electrification Train Evacuation – Wayside Energy Storage	HART is now considering only one type of Wayside
Train Evacuation - wayside Energy Storage	Energy Storage scenarios: Emergency Generators
	(Diesel).
Core System Communication Subsystems	(=).
Guideway Walkway/Cableway	AHJV is proposing to install cable trough on the
	emergency walkway for the entire guideway due to
	concerns with smaller trapezoidal cavity in concrete
	guideway AHJV is coordinating with Kiewit.
Core System O&M Subsystem	
Maintenance and Storage Facility (MSF) Yard	AHJV is evaluating HART's proposed MSF yard
Configuration/Storage Capacity	configuration changes. This issue is closed.
Guideway Track Parameters	AHJV to provide HART with its assessment of
	gain/loss in trip time due to H1 changes.
Core System Vehicle Subsystem	
Long gaps in contact rail for diamond crossovers	AHJV proposes smaller diamond crossovers to
	eliminate long gaps.
	HART has executed a change order in the amount of
XXIII (DI (C. X) (C. T)	\$1.75M to add 800 seats to the vehicles.
Vehicle/Platform Interface Tolerances	HART and AHJV are evaluating the gap tolerances
	between the vehicle and station platform
Train Evacuation - Onboard Energy Storage	Not considered by HART. HART will investigate
D. H. (Mr.)	Wayside Energy Storage instead.
Derailment Mitigation	AHJV claims no responsibility for installing guard
	rails to prevent detailments. HART to provide AHJV
	with contract details

Core System Description	Status
Collector Shoe/Contact Rail	AHJV claims there are clearance issues between the
	collector shoe and the contact rail. HART sees no
	issue since the clearance being proposed is similar to
	what CSC has installed in Los Angeles. This issue is
	closed.
Core System Safety, Security & RAM	
AHJV Safety and Security Certification Manager	HART rejected AHJV's proposed replacement for
	Safety and Security Certification Manager

2.3 Project Management Plan and Sub-Plans

The following table presents the status of each of the grantee's management deliverables.

Sub-Plan	Revision No.	Date	Notes
Quality Management Plan (QMP)	1	15-Feb-12	Accepted
Real Estate Acquisition and Management Plan	5	01-Jun-12	Accepted
(RAMP)			
Bus Fleet Management Plan (BFMP)	3	Mar-12	Accepted
Rail Fleet Management Plan (RFMP)	0.1	Mar-12	Accepted
Safety and Security Management Plan (SSMP)	4	05-Jun-13	Under PMOC review
Safety and Security Certification Plan (SSCP)	2A	01-Mar-12	Accepted
Configuration Management Plan	0.2	07-Feb-12	Accepted
Staffing and Succession Plan	5	25-May-12	Accepted
Risk and Contingency Management Plan (RCMP)	0	29-Jun-12	Accepted but under review by the new Project Controls Manager. who will be responsible for its implementation
Operating Plan	0.2	29-Jun-12	Accepted
Force Account Plan	0.3	05-Jan-12	Accepted
Mitigation Monitoring Program	0	15-Mar-12	Accepted
Interface Management Plan	0.1	17-Jan-12	Accepted
Contract Packaging Plan	3.0	30-Mar-12	Accepted
Claims Avoidance Plan	0.1	24-Jan-12	Accepted
Construction Management Plan (CMP)	0.1	03-Feb-12	Accepted
Contract Resident Engineer Manuals (DB & DBOM)	0.1	Feb-12	Accepted
Contract Resident Engineer Manuals (DBB)	A	15-Mar-12	Accepted
Project Procedures			Accepted

HART is in the process of updating several of their procedures and management plans including the PMP, Contract Packaging Plan, Staffing and Succession Plan, and Construction Management Plan. These updates are necessary due to the organizational changes enacted by the Executive Director and the contract packaging changes that are being planned. It is anticipated that HART will submit the DRAFT updates starting in July 2013.

2.4 Project Schedule Status

HART submitted an update of the Master Project Schedule (MPS) with a Data Date of March 29, 2013. The Revenue Service Date (RSD) identified in the FFGA is January 30, 2020. HART's current MPS identifies the target date for the start of interim revenue service as June 2017 and

full revenue service as March 2019. The table below provides a comparison of key milestone dates at time of FFGA application and the current MPS.

		Finis			
Milestone Description	Activity ID	FFGA Application Baseline	Current MPS	Variance (Days)	
Foundations Complete	KASG4120	13-May-17	25-Aug-17	(104)	
Interim Revenue Service	MM-0100	29-Jun-16	20-May-17	(325)	
Target for Full Revenue Service	DBOM-9270	12-Mar-19	31-Mar-19	(19)	

It should be noted that the above milestone do reflect the recent suspension of ground disturbing activities that occurred in August 2012. HART updated the MPS with regard to the suspension of activities to determine the impact. The updated MPS does not indicate any significant delays to the RSD at this time if construction were to resume in September 2013. HART is analyzing what-if scenarios to assess impacts to the Interim Opening and RSD if the suspension of construction extends beyond September 2013. The PMOC is independently reviewing the MPS to determine the effects of the AIS Delay.

The following is a look ahead for important activities associated with the Project:

Period: August 2013 – October 2013						
Activity	Responsibility	Date				
Monthly Progress Meeting	FTA, HART, PMC, GEC and PMOC	August 7, 2013				
SSMP Adherence Review	FTA, HART, PMC, GEC and PMOC	September 10, 2013				
Monthly Progress Meeting	FTA, HART, PMC, GEC and PMOC	September 11, 2013				
Monthly Progress Meeting	FTA, HART, PMC, GEC and PMOC	October 9, 2013				
Quarterly Progress Meeting	FTA, HART, PMC, GEC and PMOC	TBD				

2.5 Project Cost Status

The grantee's Base Cost Estimate (BCE) dated March 19, 2012 is \$5.122 billion in Year-of-Expenditure (YOE) dollars, including \$644 million in allocated and unallocated contingency (or 15.0% of the BCE) and \$173 million in financing costs. Of the \$644 million in total contingency, \$101 million is unallocated. The current Project Budget is as follows:

Source	Amount
Base Cost Estimate	\$4,305 billion
Total Contingency	\$0.644 billion
Finance Charges	\$0.173 billion
Total Project Cost	\$5.122 billion

Total Expenditures to Date – \$0.695 billion (through June 2013)

2.5.1 Standard Cost Category (SCC)

The most recent SCC Workbook is submitted as a separate electronic file. The following table presents the FFGA budget, expenditures to date, and Estimate at Completion (EAC) for each SCC.

SCC	SCC Description	FFGA Budget	Base Cost	Allocated Cont.	Incurred	EAC
10	GUIDEWAY & TRACK ELEMENTS	1,275,328,962	1,114,305,144	161,023,818	28,054,162	1,134,321,780
10.04	Guideway: Aerial structure	1,175,328,184	1,022,380,670	152,947,514	7,527,062	1,039,128,341
10.08	Guideway: Retained cut or fill	8,077,393	7,492,943	584,450	0	6,436,256
10.09	Track: Direct fixation	86,332,027	79,437,204	6,894,823	20,527,100	82,827,829
10.11	Track: Ballasted	3,550,634	3,293,724	256,910	0	2,697,875
10.12	Track: Special (switches, turnouts)	2,040,724	1,700,603	340,121	0	3,231,479
20	STATIONS, STOPS, TERMINALS, INTERMODA	506,165,689	421,804,742	84,360,947	0	400,404,740
20.01	At-grade station, stop, shelter, mall, terminal, platform	7,333,599	6,111,333	1,222,266	0	6,111,332
20.02	Aerial station, stop, shelter, mall, terminal, platform	353,476,148	294,563,457	58,912,691	0	273,163,457
20.06	Automobile parking multi-story structure	79,690,518	66,408,765	13,281,753	0	66,408,765
20.07	Elevators, escalators	65,665,424	54,721,187	10,944,237	0	54,721,186
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	99,425,456	92,535,013	6,890,443	4,787,818	101,949,391
30.02	Light Maintenance Facility	8,161,279	7,591,887	569,392	0	7,586,793
30.03	Heavy Maintenance Facility	40,906,889	38,099,138	2,807,751	2,657,874	37,857,030
30.04	Storage or Maintenance of Way Building	8,382,270	7,797,460	584,810	73,606	7,735,910
30.05	Yard and Yard Track	41,975,018	39,046,528	2,928,490	2,056,338	48,769,658
40	SITEWORK & SPECIAL CONDITIONS	1,103,867,264	980,569,426	123,297,838	211,358,177	937,064,912
40.01	Demolition, Clearing, Earthwork	34,695,802	29,980,157	4,715,645	6,614	27,672,011
40.02	Site Utilities, Utility Relocation	350,694,801	299,449,755	51,245,046	8,452,676	303,419,398
40.03	Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	7,228,935	6,590,542	638,393	264,758	3,777,603
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks	30,841,906	26,979,122	3,862,784	3,430,633	31,955,923
40.05	Site structures including retaining walls, sound walls	8,637,582	7,998,960	638,622	575,338	9,061,374
40.06	Pedestrian / bike access and accommodation, landscaping	48,262,816	41,073,897	7,188,919	0	41,873,040
40.07	Automobile, bus, van accessways including roads, parking lots	212,536,181	181,979,369	30,556,812	507,888	170,471,360
40.08	Temporary Facilities and other indirect costs during construction	410,969,241	386,517,624	24,451,617	198,120,270	348,834,203
50	SYSTEMS	247,460,781	221,284,483	26,176,298	0	220,601,453
50.01	Train control and signals	91,492,532	81,982,556	9,509,976	0	82,402,646
50.02	Traffic signals and crossing protection	12,524,011	10,458,227	2,065,784	0	10,251,336
50.03	Traction power supply: substations	32,873,934	29,500,927	3,373,007	0	31,027,311
50.04	Traction power distribution: catenary and third rail	36,426,286	32,878,150	3,548,136	0	29,996,873
50.05	Communications	59,889,234	53,691,339	6,197,895	0	54,251,397
50.06	Fare collection system and equipment	10,221,753	9,159,277	1,062,476	0	9,218,099
50.07	Central Control	4,033,031	3,614,007	419,024	0	3,453,791
	Construction Subtotal (10 - 50)	3,232,248,152	2,830,498,808	401,749,344	244,200,157	2,794,342,276

SCC	SCC Description	FFGA Budget	Base Cost	Allocated Cont.	Incurred	EAC
60	ROW, LAND, EXISTING IMPROVEMENTS	222,188,386	197,397,947	24,790,439	40,345,772	197,675,747
60.01	Purchase or lease of real estate	201,658,907	179,360,664	22,298,243	38,094,545	179,360,664
60.02	Relocation of existing households and businesses	20,529,479	18,037,283	2,492,196	2,251,227	18,315,083
70	VEHICLES	208,501,186	186,829,020	21,672,166	212,900	190,028,297
70.02	Heavy Rail	186,061,066	166,721,385	19,339,681	0	171,122,353
70.06	Non-revenue vehicles	16,011,166	14,346,923	1,664,243	212,900	13,026,548
70.07	Spare parts	6,428,954	5,760,712	668,242	0	5,879,396
80	PROFESSIONAL SERVICES	1,183,826,026	1,090,438,814	93,387,212	384,709,038	1,067,831,314
80.01	Preliminary Engineering	95,120,484	94,055,262	1,065,222	92,178,523	117,953,305
80.02	Final Design	257,934,908	228,321,632	29,613,276	48,404,467	186,979,401
80.03	Project Management for Design and Construction	385,825,694	366,458,463	19,367,231	201,388,293	362,482,961
80.04	Construction Administration & Management	218,155,752	199,656,728	18,499,024	30,390,884	198,079,928
80.05	Professional Liability and other Non-Construction Insurance	52,138,030	46,549,724	5,588,306	874,436	40,884,316
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	76,135,125	67,641,006	8,494,119	6,273,066	67,673,782
80.07	Surveys, Testing, Investigation, Inspection	24,955,327	21,759,335	3,195,992	3,178,669	28,973,550
80.08	Start up	73,560,706	65,996,664	7,564,042	2,020,700	64,804,071
90	Subtotal (10 - 80)	4,846,763,750	4,305,164,589	541,599,161	669,467,867	4,249,877,634
	UNALLOCATED CONTINGENCY	101,871,170	0	101,871,170	0	101,871,170
100	Subtotal (10 - 90)	4,948,634,920	4,305,164,589	643,470,331	669,467,867	4,351,748,804
	FINANCE CHARGES	173,058,242			0	173,058,243
	Total Project Cost (10 - 100)	5,121,693,162	4,305,164,589	643,470,331	669,467,867	4,524,807,047

2.5.2 Contingency

HART has developed a detailed methodology for forecasting use of contingency. The PMOC has noted that there is still a discrepancy in how HART will handle potential future changes without enough information to prepare detailed cost estimates. HART held an internal workshop to develop an approach and presented their revised methodology to the PMOC on July 11, 2013. The revised analysis includes low and high ranges for all potential identified changes. HART also attached a date of expected expenditure for each change. This data was plotted on the contingency drawdown curve to show the best and worst cases.

HART's current assessment indicates the range of uncommitted contingency at this time is \$413-439 million. PMOC reviewed HART's range of uncommitted contingency in detail on July 11, 2013 during the Project Control break out session and finds their methodology acceptable.

The PMOC does have some concern with the adequacy of the remaining contingency given the anticipated costs due to the project delays. The PMOC will continue to monitor the forecast drawdown of contingency to determine whether recommendations for primary or secondary mitigations should be implemented.

2.5.3 Funding Sources

The following are the project capital revenue (funding) sources:

Source	Amount
General Excise Tax (GET)	\$3.358 billion
Section 5309	\$1.550 billion
Section 5307	\$0.210 billion
ARRA	\$0.004 billion
Total	\$5.122 billion

The GET surcharge receipts received to date are approximately \$651 million.

2.6 Project Risk

The following activities associated with risk management have occurred:

- Risk Workshop 1, held April 5-8, 2011 in Honolulu, addressed the following: Preliminary PMOC findings from a scope, schedule and cost review; Risk Register and Action Items; and Path Forward.
- Risk Workshop 2, held April 27, 2011 in San Francisco, addressed the following: Quantitative risk assessment process; Summary of key PMOC findings for the cost and schedule risk analyses; Risk Mitigation; and Path Forward. To condition the cost estimate for the cost risk analysis, the PMOC identified approximately \$52 million (Year of Expenditure) in net adjustments to the Base Cost Estimate (BCE). To condition the Master Project Schedule (MPS) for the schedule risk analysis, the PMOC identified numerous adjustments that were incorporated into an Adjusted Project Schedule (APS).
- Risk Workshop 3, held August 2, 2011, addressed the Draft Risk and Contingency

- Management Plan (RCMP).
- A meeting was held December 8, 2011 to address the reevaluation of the grantee's Secondary Mitigation Measures to ensure that Secondary Mitigation Capacity is not reduced with the adoption of the proposed Cost Reduction Measures.
- A Risk Refresh Workshop was performed the week of April 11, 2012 to address the Preliminary PMOC findings from a scope, schedule, and cost review, Risk Register and Action Items, and Path Forward.

Upon submittal of the updated cost estimate by the grantee in spring 2012 to support the FFGA application, it was observed that significant contingency reduction occurred, to a point where contingency was below accepted control levels. The grantee had identified a total of \$644 million in contingency in the cost estimate used for the Risk Refresh Workshop in April 2012. This was \$222 million less than the amount of contingency of \$866 million identified during the prior review to support the request to enter into Final Design.

Subsequent to that April 2012 Risk Refresh Workshop, the grantee implemented efforts to recover contingency levels through cost reduction measures, value engineering, and revised project delivery strategies. In addition, strong controls were put in place to avoid future rapid contingency loss. HART and the PMOC have held monthly breakout sessions to review the status of the forecast costs, schedule management, risk management, and cost containment measures. These breakout sessions have resulted in increased confidence by the PMOC of the grantee's ability to manage budget and schedule of the project.

The PMOC had also recommended that the grantee develop more detail for the Secondary Mitigation items and attempt to identify secondary mitigation measures that approach a total value of \$149 million. The grantee has undertaken an exercise to both develop more detail for its proposed Secondary Mitigation items and to identify additional viable items. This information was reviewed by the PMOC and will be incorporated into a final updated RCMP.

HART and the PMOC have reviewed the list of potential secondary mitigation measures. The PMOC estimates the current value of viable Secondary Mitigation measures to be \$35 million, which is substantially less than recommended amount of \$149 million. The PMOC requested that HART review and update their list of potential Secondary Mitigations Measures since many of the items previously identified are no longer viable. HART is in the process of updating the list of primary and secondary mitigations and anticipates having a draft list for PMOC review and discussion in August 2013.

2.7 Action Items

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status
1	Schedule Mitigation Monitoring Plan (MMP) workshop with FTA/PMOC	HART/PMOC	Jan-13	Aug-13		To be scheduled in September 2013
2	Develop schedule for HART Safety and Security Roadmap	HART	Apr-13	May-13		Open – To be provided on May 14, 2013.
3	Update management plans	HART	May-13	Aug-13		Closed – PMOC will track updates in Section 2.3 of Monthly Report
4	Provide white paper on 4-car trains	HART	May-13	Jul-13		PMOC submitted Job Memorandum to FTA for review
5	Provide scope of work for platform screen gates	HART	May-13	Jun-13		Under PMOC review
6	Provide CSC design review comments	PMOC	May-13	Jun-13		Closed
7	Meet to discuss CSC design review comments	HART/PMOC	May-13	Jul-13		Closed
8	Provide CSC presentation information	HART	Jun-13	Jul-13		Closed
9	Provide Architectural Directive Drawings	HART	Jul-13	Aug-13	-	Open
10	Change QA observation to NCR for CSC	HART	Jul-13	Aug-13	-	Open

The following action items were discussed during the Project Controls Meeting:

Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status	
1	Provide an assessment of the AIS	PMOC	Dec-12	May-13		Open – draft has been submitted to FTA;	
	Cost/Schedule Impact Analysis					update required to reflect revised MPS	
2	Complete and submit the updated Contract	HART	Jan-13	Mar-13		Open – requires discussion. Update to be	
	Package Plan					provided in August 2013	
3	Submit the baselined RCMP	HART	Jan-13	May-13		Open	
4	Revise cost drawdown curve to reflect smooth	HART	Mar-13	May-13	May-13	Closed	
	data points						
5	Provide justification for Lea+Elliott contract	HART	May-13	Jun-13		In progress – White paper pending	
	reassignment from GEC to HART						
6	Update primary and secondary mitigation	HART	May-13	Jun-13		In progress – August 2013	
	measures						
7	Provide AIS delay summary status	HART	Jun-13	Jul-13		Closed	
8	Update MPS & Budget	HART	Jun-13	Oct-13			
9	Contingency forecast update	HART	Jun-13	Jul-13		Closed	

APPENDICES

Appendix A: Acronym List

ATC • Alternative Technical Concept

BAFO • Best and Final Offers

BFMP • Bus Fleet Management Plan
CMP • Construction Management Plan

CSC • Core Systems Contract

CSSO • Chief Safety and Security Officer

DB • Design-Build
DBB • Design-Bid-Build

DBOM • Design-Build-Operate-Maintain

DCCA • Department of Commerce and Consumer Affairs

DHHL • Department of Hawaiian Homelands

DLNR • Department of Land and Natural Resources

DOE • Department of EducationEAC • Estimate at Completion

FD • Final Design

FEIS • Final Environmental Impact Statement

FFGA
 Full Funding Grant Agreement
 FHWA
 Federal Highway Administration
 FTA
 Federal Transit Administration

FY • Fiscal Year

GEC • General Engineering Consultant

GET • General Excise Tax

GSA • General Services Administration

HART • Honolulu Authority for Rapid Transportation
 HDOT • Hawaii Department of Transportation

KH • Kamehameha Highway

LCCLeeward Community CollegeLEEDLeadership in Energy and Environmental Design (LEED)

LONP
• Letter of No Prejudice

MOA
• Memorandum of Agreement

MOT
• Maintenance of Traffic

MPS • Master Project Schedule

MSF • Maintenance and Storage Facility

NCR • Non-Compliance Report

NEPA • National Environmental Policy Act

NTP Notice to Proceed

OCIP • Owner Controlled Insurance Program

PA • Programmatic Agreement
PE • Preliminary Engineering
PMC • Project Management Consultant

PMOC • Project Management Oversight Contractor

PMP Project Management Plan
QAM Quality Assurance Manager
QAP Quality Assurance Plan
QMP Quality Management Plan

RAMP • Real Estate Acquisition and Management Plan
RCMP • Risk and Contingency Management Plan

RFMP Rail Fleet Management Plan
RFP Request for Proposals
RFQ Request for Qualifications
ROD Record of Decision

ROE • Right of Entry

RSD • Revenue Service Date SCC • Standard Cost Category

SHPD • State Historic Preservation Division

SM • Schedule of MilestoneSOA • State Oversight Agency

SSCP • Safety and Security Certification PlanSSMP • Safety and Security Management Plan

SSPP • System Safety Program Plan

SSSPS • System Safety and Security Program Standards

TCC • Technical Capacity and Capability

VE • Value Engineering

WOFH • West Oahu/Farrington Highway

YOE • Year of Expenditure

Appendix B: Contract Status

The following sections provide the status of various ongoing contracts associated with this Project.

Contract No.	MM-901	MM-901					
Contract Description:	Program Management Sup	Program Management Support Consultant (PMSC·2)					
Status:	Grantee executed a contract v	Grantee executed a contract with InfraConsult LLC to provide PMC services. NTP was issued February 23, 2012.					
Cost:	Original Contract Value	Original Contract Value \$33,000,000					
	Approved Change Orders	Approved Change Orders \$0					
	Current Contract Value \$33,000,000						
	Expended to Date \$10,900,000						
	% Expended	32.7%					
	DBE Participation 0%						
Schedule:	Contract duration is approximately 36 months from NTP.						
Issues or Concerns:	None						

Contract No.	MM-910						
Contract Description:	General Engineering Consu	General Engineering Consultant (GEC II) Contract					
Status:		th Parsons Brinkerhoff on June 30, 2011. The contract amount is \$300 million (\$150 million base					
		owance amount). It is anticipated that the \$150 million allowance for additional work will be used					
		n of the contract. However, it is possible with a contract amendment to expend a portion of the					
	allowance amount any time d	uring the term of the contract. Notice to Proceed (NTP) 1 was issued on August 2, 2011.					
Cost:	Original Contract Value \$300,000,000						
	Approved Change Orders \$0						
	Current Contract Value \$300,000,000						
	Expended to Date \$114,900,000						
	% Expended 38.3%						
	DBE Participation 0%						
Schedule:	The contract duration is approximately 36 months from NTP with an option for an additional 36 months.						
Issues or Concerns:	HART intends to issue a Request for Proposals for a new General Engineering Consultant (GEC) contract in late July 2013. The						
	scope or work for the new GEC would be modified significantly from that for the current GEC contract and would be developed						
	to fit within the project budge	et more effectively.					

Contract No.	DB-120
Contract Description:	West Oahu/Farrington Highway (WOFH) DB Contract
Status:	Kiewit was awarded a contract on November 18, 2009. The following NTPs have been issued:
	• NTP 1 – Issued December 1, 2009, authorizing \$27 million to complete elements of PE whose principal purpose is
	refinement and validation of information supporting the NEPA process.

	NTP 1A – Issued March	11, 2010, authorizing \$25.8 million for PE activities to be completed.
	• NTP 1B - Issued March 23, 2010, authorizing \$21.2 million for interim design activities.	
	• NTP 1C – Issued June 7, 2010, authorizing \$3.5 million for test and demonstration drilled shafts to complete the deep	
	foundations interim design.	
	• NTP 1D – Issued January 6, 2011, authorizing \$8.7 for continued administrative costs through June 2011 including project management, quality management, safety plan administration, coordination with local agencies, design management, and public information.	
	-	, 2011, authorizing \$62 million for work activities related to the relocation of utilities, in accordance
		ward authority associated with the FTA's issuance of a ROD.
		11, authorizing \$4.7 million for Final Design activities to allow contractor to submit drawings to the
		rmit and Planning for permit approval.
	• NTP 4A – Issued February 6, 2012, authorizing construction activities, excluding activities associated with the pre-	
	under the LONP 2 author	rity. The contractor began installation of the guideway piers in May 2012.
	• NTP 4B – Issued May 1	7, 2012, authorizing limited construction activities associated with the precast yard.
Cost:	Original Contract Value	\$482,924,000
	Approved Change Orders	\$54,800,000
	Current Contract Value	\$538,917,377
	Expended to Date	\$176,509,750
	% Expended	32.8%
	DBE Participation	1.23%
Schedule:	 Original contract duration was approximately 43 months from NTP. Grantee has approved the baseline schedule submittal. The contractor is preparing a schedule analysis for NTP delays. Completion is anticipated in January 2015. 	
Issues or Concerns:	 The executed agreement called for issuance of all four NTPs within 120 calendar days of December 1, 2009. Since that 	
	requirement was not met, the grantee has been coordinating with Kiewit to determine the extent of any impact to the	
	 approved baseline schedule. Contractor must submit a revised baseline schedule. No construction activity will continue until future written notice is provided by HART due to AIS. HART instructed Kiewit to remove their Project Manager from the WOFH Guideway project. He was also serving as 	
		KHG Guideway project too. Kiewit is in the process of submitting other Project Manager's to
	HART for approval.	KITO Guideway project too. Kiewit is in the process of submitting other 1 roject Manager's to
	TIAKT TOT approvat.	

Contract No.	DB-320	
Contract Description:	Kamehameha Highway Guideway DB Contract	
Status:	Kiewit was awarded a contract on June 30, 2011. Following NTPs have been issued:	
	• NTP 1 – Issued July 12, 2011, authorizing \$102 million to perform PE including interim/definitive design submittals and	
	coordinating with other contracts.	
	• NTP 1(Rev 2) - Issued December 23, 2011 for approximately \$107 million (net increase of \$5 million) to allow for a three	

	 month extension of monthly management activities. NTP 2 - Issued January 10, 2012 for approximately \$22 million and authorizes FD work activities. The grantee anticipates issuing multiple NTPs for limited construction activities associated with LONP 2 and full construction activities once it receives the appropriate authorizations from FTA. NTP 3A – Issued February 7, 2012 authorizing construction activities, excluding activities associated with the precast yard under the LONP 2 authority. 	
	• NTP 3B – Issued on Ma	y 22, 2012 authorizing limited construction activities associated with the precast yard.
Cost:	Original Contract Value	\$372,150,000
	Approved Change Orders	\$4,200,000
	Current Contract Value	\$376,366,000
	Expended to Date	\$82,804,669
	% Expended	22.1%
	DBE Participation	0.35%
Schedule:	Contract duration is appr	roximately 48 months from NTP.
	Completion is anticipated in July 2015.	
Issues or Concerns:	No construction activity will continue until future written notice is provided by HART due to AIS.	
	• HART instructed Kiewit to remove their Project Manager from the WOFH Guideway project. He was also serving as the	
	Project Manager for the KHG Guideway project too. Kiewit is in the process of submitting other Project Manager's to HART for approval.	

Contract No.	DB-200	
Contract Description:	Maintenance and Storage Facility DB Contract	
Status:	Kiewit/Kobayashi Joint Ventu	ure was awarded a contract on June 30, 2011. Following NTPs have been issued:
	• NTP 1 – Issued July 25, 2	2011, authorizing \$16.8 million to perform PE, associated site investigations and coordinating with
	other contractors.	
	NTP 2 - Issued January 1	0, 2012 for approximately \$66 million and authorizes FD work activities and procurement of long
		ntee anticipates issuing multiple Notices to Proceed (NTP) for limited construction activities
	associated with LONP 2	and full construction activities once it receives the appropriate authorizations from the Federal
	Transit Administration (FTA).	
	• NTP 3 – Issued February 7, 2012 authorizing construction activities under the LONP 2 authority.	
Cost:	Original Contract Value	\$195,258,000
	Approved Change Orders	\$19,597,737
Current Contract Value \$215,375,751 Expended to Date \$52,848,402 % Expended 24.5%		\$215,375,751
		\$52,848,402
		24.5%
	DBE Participation 0.14%	
Schedule:	Contract duration is approximately 36 months from NTP.	
	Completion is anticipated in December 2014.	

Issues or Concerns:	• The grantee must execute a license agreement with DHHL. The PMOC has recommended that the License Agreement be	
	provided to the FTA and PMOC for review prior to execution. A Request for Right of Entry (ROE) for construction was	
	approved by the DHHL Board. The ROE allows access to Navy Drum Site for construction until the property acquisition	
	occurs or the License Agreement is finalized.	
	 No construction activity will continue until future written notice is provided by HART due to AIS. 	

Contract No.	DBOM-920	
Contract Description:	Core Systems Contract (CS	C)
Status:	Ansaldo Honolulu Joint Vent	ure was awarded a contract on November 28, 2011. The following NTPs have been issued:
	• NTP 1 – Issued on Janua	ry 13, 2012, authorizing \$20,285,221 million to support the design efforts of fixed facilities by
	providing interface mana	gement and coordination. In addition, NTP 1 includes work required to advance all Core Systems
	to final design.	
Cost:	Original Contract Value	\$573,782,793
	Approved Change Orders	\$0
	Current Contract Value	\$573,782,793
	Expended to Date	\$38,401,523
	% Expended	6.7%
	DBE Participation	0.00%
Schedule:	Contract duration is approximately 88 months from NTP.	
	Completion is anticipated in April 2019.	
Issues or Concerns:	Grantee has provided approval with comments of the baseline schedule.	

Contract No.	FD-430		
Contract Description:	Airport Section Guideway	Airport Section Guideway and Utilities Final Design	
Status:	AECOM was awarded a cont	ract on December 15, 2011. The following NTPs have been issued:	
	NTP 1A – Issued on Jan	uary 5, 2012 for a design workshop and to develop a schedule of milestones and activities.	
	• NTP 1B – Issued on Feb	ruary 22, 2012 to advance design.	
Cost:	Original Contract Value	\$39,115,960	
	Approved Change Orders	\$275,000	
	Current Contract Value	\$39,115,960	
	Expended to Date	\$19,137,720	
	% Expended	48.9%	
	DBE Participation	0.76%	
Schedule:	Contract duration is approximately 61 months from NTP 1A.		
	Completion is anticipated in January 2017.		
Issues or Concerns:	HART is proposing additional value engineering design changes to reduce airport guideway costs to previous FD estimate.		

	HART will also incorporate these value engineering design changes to the City Center Guideway design contract	ct.
	in the win also interperate these value engineering design changes to the enty center curie way design contains	• • •

Contract No.	FD-530	
Contract Description:	City Center Section Guidev	vay and Utilities Final Design
Status:	AECOM was awarded a cont	ract on July 30, 2012. The following NTPs have been issued:
	• NTP 1A – Issued on July	31, 2012 for a design workshop and to develop a schedule of milestones and activities.
	• NTP 1B – Issued on Oct	ober 25, 2012 for preliminary engineering revisions.
Cost:	Original Contract Value	\$43,948,220
	Approved Change Orders	\$0
	Current Contract Value	\$43,948,220
	Expended to Date	\$8,154,586
	% Expended	18.5%
	DBE Participation	0%
Schedule:	Contract duration is approximately 61 months from NTP 1A.	
	Completion is anticipated in January 2017.	
Issues or Concerns:	Airport and City Center Guideway Construction Packages will be combined.	

Contract No.	FD-240		
Contract Description:	Farrington Highway Station Group Final Design		
Status:	HDR/HPE, Inc. was awarded	a contract on April 15, 2010. The following NTP's have been issued:	
	• NTP 1 – Issued on J	anuary 14, 2011 to begin PE.	
	• NTP 2 – Issued on F	February 13, 2012 to begin Interim Design.	
	• NTP 3 – Issued on J	anuary 28, 2012 to begin Final Design.	
Cost:	Original Contract Value	\$5,500,000	
	Approved Change Orders	\$2,508,045	
	Current Contract Value	\$8,008,045	
	Expended to Date	\$7,741,985	
	% Expended	96.7%	
	DBE Participation	2.68%	
Schedule:	Contract duration is approximately 55 months from NTP 1.		
	Completion is anticipated in July 2015.		
Issues or Concerns:	During a workshop in February 2012, HART and the GEC presented the status of station design modifications initiated for		
	the Farrington Highway Stations Group (FHSG) in December 2011 in response to cost estimates trending beyond the budget		
	as identified during Preliminary Engineering. Initial cost reduction measures for the FHSG (West Loch, Waipahu Transit		
	Center and Leeward Community College stations) were developed further by HDR and were applied conceptually to all		
	other stations for the pur	other stations for the purpose of determining feasibility of cost reduction for each station.	
	HDR's acquisition of Inf	HDR's acquisition of InfraConsult LLC (HART's Program Management Consultant) has created conflict of interest issues	
	for HART since HDR is	currently under contract to complete design of FHSG. HDR submitted final plans; contract closeout	

	anticipated in August 2013.
--	-----------------------------

Contract No.	FD-140	FD-140	
Contract Description:	West Oahu Station Group	Construction Final Design	
Status:	URS, Inc. was awarded a con	stract on June 14, 2012. The following NTP's have been issued:	
	NTP 1A – Issued on	June 15m, 2012 to prepare statement of work and mobilize.	
	• NTP 1B – Issued on	September 6, 2012 to begin advanced PE.	
	• NTP 1C – Issued on January 4, 2013 to begin Interim Design.		
Cost:	Original Contract Value	\$7,789,000	
	Approved Change Orders	\$0	
	Current Contract Value	\$7,789,000	
	Expended to Date	\$3,858,197	
	% Expended	49.5%	
	DBE Participation	0%	
Schedule:	Contract duration is approximately 55 months from NTP 1A.		
	• Completion is anticipated in October 2015.		
Issues or Concerns:	None at this time		

Contract No.	FD-340	FD-340				
Contract Description:	Kamehameha Highway Sta	Kamehameha Highway Station Group Construction Final Design				
Status:	Anil Verma, Inc. was awarde	d a contract on November 26, 2012. The following NTP's have been issued:				
	 NTP 1A – Issued on 	November 26, 2012 to prepare statement of work and mobilization.				
Cost:	Original Contract Value	\$8,500,000				
	Approved Change Orders	\$0				
	Current Contract Value	\$8,072,592				
	Expended to Date \$3,207,188					
	% Expended	39.7%				
	DBE Participation 0%					
Schedule:	Contract duration is approximately 33 months from NTP 1A.					
	Completion is anticipated in August 2015.					
Issues or Concerns:	None at this time					

Contract No.	FD-440			
Contract Description:	Airport Station Group Construction Final Design			
Status:	AECOM was awarded a contract on November 7, 2012. The following NTP's have been issued:			
	NTP 1A – Issued on November 14, 2012 to prepare statement of work and advanced activities.			
	NTP 1B – Issued on January 4, 2013 to begin advanced PE.			

Cost:	Original Contract Value	\$10,177,365		
	Approved Change Orders	\$0		
	Current Contract Value	\$10,177,365		
	Expended to Date	\$ 3,353,838		
	% Expended	32.9%		
	DBE Participation	0%		
Schedule:	Contract duration is approximately 57 months from NTP 1A.			
	Completion is anticipated in July 2017.			
Issues or Concerns:	None at this time			

Contract No.	MM-935	MM-935				
Contract Description:	Real Estate Services Consu	Real Estate Services Consultant				
Status:	The grantee issued NTP on M	March 14, 2012 to Paragon Partners, LTD.				
Cost:	Original Contract Value	\$2,800,000				
	Approved Change Orders \$0					
	Current Contract Value \$2,800,000					
	Expended to Date \$258,205					
	% Expended	9.2%				
	DBE Participation 0%					
Schedule:	Completion is anticipated in March 2017.					
Issues or Concerns:	None at this time					

Contract No.	MM-950					
Contract Description:	Owner Controlled Insurance Program (OCIP) Consultant					
Status:	The grantee has decided not t	The grantee has decided not to use OCIP for WOFH, MSF and KH DB Contracts. However, OCIP will be included on the				
	remaining contracts. The gran	ntee selected Marsh as its consultant and issued NTP on March 30, 2012.				
Cost:	Original Contract Value	Original Contract Value \$1,025,000				
	Approved Change Orders \$0					
	Current Contract Value \$1,025,000					
	Expended to Date \$382,500					
	% Expended	37%				
	DBE Participation 0%					
Schedule:	Completion is anticipated in December 2019.					
Issues or Concerns:	None at this time					

	Contract No.	MM-940
ĺ	Contract Description:	Programmatic Agreement (PA) Project Manager
	Status:	The grantee issued an NTP on March 30, 2012 to Pacific Legacy Inc. The consultant will report to the State Historic

	Preservation Division and the	Preservation Division and the consulting parties listed in the PA.		
Cost:	\$950,000			
	Approved Change Orders	\$0		
	Current Contract Value	\$950,000		
	Expended to Date	\$284,908		
	% Expended	30%		
	DBE Participation	0%		
Schedule:	Completion is anticipated in	Completion is anticipated in February 2017.		
Issues or Concerns:	None at this time.	None at this time.		

Appendix C: Procurement Schedule

Contract No.	Segment	Type Svc	Status	Description	Advertise	NTP	Bid Ready	Complete
FD-550	City Cen	Design	Active	Dillingham Station Group/Kaka'ako Station Group	11/16/2012	8/15/2013	5/1/2015	7/30/2018
MM-951	PW	Services	Active	OCIP Brokerage Services	6/4/2013	7/26/2013	N/A	7/31/2014
ART Prg	PW	Art	Active	Art-in-Transit (Call for Artists)	5/14/2013	TBD		
MM-945	PW	Services	Future	On-Call Construction Contractor	3/15/2013	8/27/2013	N/A	3/3/2019
FD-245	KHG	Design	Future	Pearl Highlands Parking Structure/Bus Transit Center	4/15/2013	12/21/13	10/1/2015	4/29/2018
	PW	Prof Svcs	Future	General Engineering Consultant Recompete	7/26/2013	10/4/2013	N/A	TBD
	PW West	Prof Svs	Future	Construction Engineering & Inspection West	7/26/2013	10/4/2013	N/A	TBD
	PW East	Prof Svs	Future	Construction Engineering & Inspection East	7/26/2013	10/4/2013	N/A	TBD
DBB-505	Airport	Construction	Future	Airport Section Utilities	11/1/2013	3/5/2013	N/A	12/22/2015
DBB-185	WOFH/ KHG	Construction	Future	West Oahu / Farrington Highway and Kamehameha Station Groups Construction	1/15/2014	4/15/2014	N/A	11/14/2016
DBB-510	City Cen	Construction	Future	City Center Section Utilities	3/15/2014	6/15/2014	N/A	12/22/2015
DBB-520	Airport	Construction	Future	Airport and City Center Guide Guideway Construction	5/1/2014	10/15/2014	N/A	4/29/2018
FD-600	WOFH	Design	Future	UH West Oahu Park-and-Ride and Ho'opili Station Finishes	9/10/2014	5/12/2015	1/15/2016	9/29/2018
DBB-470	Airport	Construction	Future	Airport Station Group	10/1/2014	2/1/2015	N/A	6/15/2017
DBB-580	City Cen	Construction	Future	Dillingham / Kaka'ako Station Group	7/15/2015	11/15/2015	N/A	8/14/2018
DBB-275	KHG	Construction	Future	Pearl Highlands Parking Structure/Bus Transit Center	8/15/2015	12/28/2015	N/A	4/29/2018

DBB-600	WOFH	Construction	Future	UH West Oahu Park-and-Ride and Ho'opili Station Finishes	3/15/2016	9/15/2016	N/A	8/15/2018
PA-102	PW	Pro Svcs	Active	Historic Architectural Design Consultant	3/15/2013	5/15/2013	N/A	5/1/2016
	PW	Pro Svcs	Future	Professional Recruiting Services	4/10/2013	5/3/2013	N/A	5/30/2014
	PW	Pro Svcs	Future	Archeological & Cultural Monitoring	7/19/2013	9/1/2013	N/A	5/30/18

Appendix D: Open Final Design Approval Letter Requirements

No.	Item	Completion Date	Comments
	Safety and Security		
1	The Hawaii Department of Transportation (HDOT) should accelerate the hiring process and select a qualified State Safety Oversight Agency (SSOA) project manager.	TBD	Open – Jadine Urasaki named as Interim Project Manager
	Civil Rights		
2	Title VI program must be submitted to FTA at least 30 calendar days prior to June 10, 2013 which is the expiration of the current Title VI approval.	May-13	Open
3	The City will need to perform a Title VI service and fare equity analysis six months prior to revenue operations of the Project.	Jun-14	Open

Appendix F: Project Overview and Map

Date: July 2013

Project Name: Honolulu Rail Transit Project Grantee: City and County of Honolulu

FTA Regional contact: Catherine Luu FTA HQ contact: Kim Nguyen

SCOPE

Description The proposed Project is an approximately 20-mile rail alignment extending from East

Kapolei to Ala Moana Center.

Guideway The majority of the Project is to be built on aerial structure, but the Project also

includes a short at-grade section (0.6 miles).

Stations 21 stations (20 aerial and 1 at-grade)

Support Facility Maintenance and Storage Facility (located near Leeward Community College)

Vehicles 80 light metro rail

Ridership 99,800 weekday boardings in 2019; 114,300 weekday boardings in 2030

SCHEDULE 10/09 Approval Entry to PE 03/19 Estimated RSD at Entry to PE

12/11 Approval Entry to FD 03/19 Estimated RSD at Entry to FD

06/12 Request for FFGA 03/19 Estimated RSD at Request for FFGA

12/12 FFGA 01/20 RSD at FFGA

COST \$5.348 B Total Project Cost (\$YOE) at Approval Entry to PE

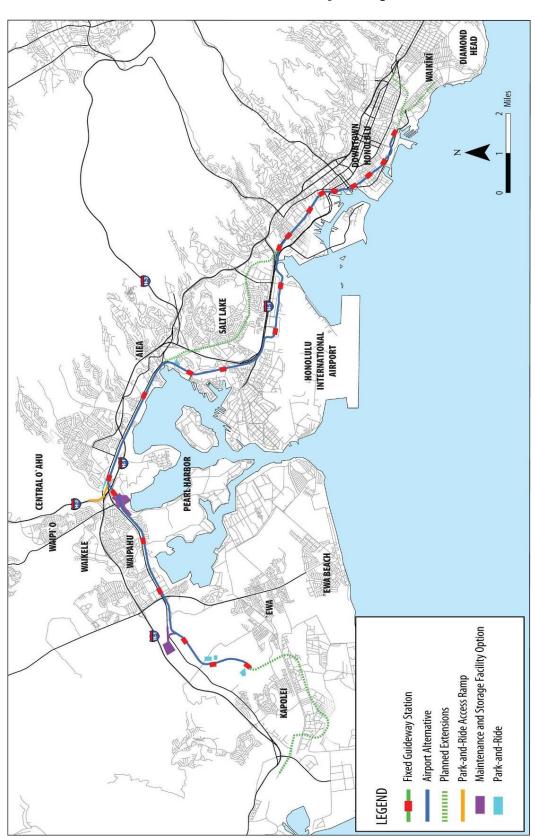
\$5.126 B Total Project Cost (\$YOE) at Approval Entry to FD \$5.122 B Total Project Cost (\$YOE) at request for an FFGA

\$5.122 B Total Project Cost (\$YOE) at FFGA

\$695M Amount of Expenditures at date of this report

13.1% complete (Total Project Expenditures/Total Project Cost)

Honolulu Rail Transit Project Map



Appendix G: Safety and Security Checklist

Project Overview				
Project Name	Honolulu	Rail Transi	t Proiect	
Project Manie Project mode (Rail, Bus, BRT, Multimode)	Honolulu Rail Transit Project Rail			
Project mode (Ran, Bus, BK1, Mantinode) Project phase (Preliminary Engineering, Final Design,	FD			
Construction, or Start-up)				
Project Delivery Method (Design/Build,	DB, DBB and DBOM			
Design/Build/Operate Maintain, CMGC, etc	25, 255		· -	
Project Plans	Version	Review	Status	
110,000114110	V CI SIGII	by FTA	Status	
Safety and Security Management Plan	3.0	Y	Complete	
Safety and Security Certification Plan	2.0	Y	Complete	
System Safety Program Plan		_	Submittal date Mar-13	
System Security Plan or Security and Emergency			Submittal date Jul-13	
Preparedness Plan (SSEPP)				
Construction Safety and Security Plan	1.0	Jun-11	Submitted in Mar-11	
Safety and Security Authority		/N	Status	
Is the grantee subject to 49 CFR Part 659 state safety		Y		
oversight requirements?				
Has the state designated an oversight agency as per Part	,	Y	Executive Order 10-04	
659.9			effective April 6, 2010	
Has the oversight agency reviewed and approved the	1	1	Submission/Approval	
grantee's SSPP as per Part 659.17?			in 2013	
Has the oversight agency reviewed and approved the	l	1	Submission/Approval	
grantee's Security Plan or SEPP as per Part 659.21?			in 2013	
Did the oversight agency participate in the last Quarterly	1	1	SOA in formation	
Program Review Meeting?				
Has the grantee submitted its safety certification plan to the	1	1	SOA in formation	
oversight agency?				
Has the grantee implemented security directives issues by	1	1	None issued to date	
the Department Homeland Security, Transportation Security				
Administration?				
SSMP Monitoring			T	
Is the SSMP project-specific, clearly demonstrating the		Y		
scope of safety and security activities for this project?				
Grantee reviews the SSMP and related project plans to	}	Y		
determine if updates are necessary?	_	7		
Does the grantee implement a process through which the		Y		
Designated Function (DF) for Safety and DF for Security				
are integrated into the overall project management team?				
Please specify. Does the grantee maintain a regularly scheduled report on	_	Y	Reported Monthly	
the status of safety and security activities?	-	L	reported Monthly	
Has the grantee established staffing requirements,	Y			
procedures and authority for safety and security activities	Y			
throughout all project phases?				
Does the grantee update the safety and security	•	Y		
responsibility matrix/organization chart as necessary?		-		
Has the grantee allocated sufficient resources to oversee or	•	Y		
carry out safety and security activities?		-		
Has the grantee developed hazard and vulnerability analysis	•	Y		
techniques, including specific types of analysis to be	<u> </u>			
performed during different project phases?				
1	1		1	

Does the grantee implement regularly scheduled meetings to	Y	
track to resolution any identified hazards and/or		
vulnerabilities?		
Does the grantee monitor the progress of safety and security	Y	
activities throughout all project phases? Please describe	_	
briefly.		
Does the grantee ensure the conduct of preliminary hazard	Y	
and vulnerability analyses? Please specify analyses	1	
conducted.	37	
Has the grantee ensured the development of safety design	Y	
criteria?		
Has the grantee ensured the development of security design	Y	
criteria?		
Has the grantee verified conformance with the safety and	N	Will be done during
security requirements in the design?		FD/Construction
Has the grantee identified conformance with safety and	N	Will be done during
security requirements in equipment and materials		FD/Construction
procurement?		
Has the grantee verified construction specification	N	Will be done during
conformance?	14	construction
	N	1
Has the grantee identified safety and security critical tests to	IN	Will be done during
be performed prior to passenger operations?		Rail Activation phase
Has the grantee verified conformance with safety and	N	Will be done during
security requirements during testing, inspection and start up		Rail Activation phase
phases?		
Does the grantee evaluated change orders, design waivers,	N	Will be done during
or test variances for potential hazards and/or vulnerabilities?		FD/Construction
Has the grantee ensured the performance of safety and	N	Will be done during
security analyses for proposed work-arounds?		Rail Activation phase
Has the grantee demonstrated through meetings or other	N	Will be done during
methods, the integration of safety and security in the	-,	Rail Activation phase
following:		run rich valion phase
Activation Plan and Procedures		
Integrated Test Plan and Procedures		
Operations and Maintenance Plan		
Emergency Operations Plan		
Has the grantee issued final safety and security	N	Will be done after
certification?		completion of Rail
		Activation phase
Has the grantee issued the final safety and security	N	Will be done during
verification report?		Rail Activation phase
Construction Safety		1
Does the grantee have a documented/implementation	Y	CSP development is
Contractor Safety Program with which it expects contractors	1	included in
1 = = = = = = = = = = = = = = = = = = =		construction contracts
to comply?	TDD	
Does the grantee's contractor(s) have a documented	TBD	Is a requirement of
company-wide safety and security program plan?		CSSP
Does the grantee's contractor(s) have a site-specific safety	TBD	Is a requirement of
and security program plan?		CSSP
Provide the grantee's OSHA statistics compared to the	TBD	None developed yet
national average for the same type of work?		
If the comparison is not favorable, what actions are being	TBD	None developed yet
taken by the grantee to improve its safety record?		
Does the grantee conduct site audits of the contractor's	Y	Audit required in
performance versus required safety/security procedures?		CSSP
The same signatures broadens.		1

Federal Railroad Administration		
If the shared track: has the grantee submitted its waiver	NA	
request application to FRA? (Please identify any specific		
regulations for which waivers are being requested)		
If the shared corridor: has grantee specified specific	NA	
measures to address shared corridor safety concerns?		
Is the Collision Hazard Analysis underway?	NA	
Other FRA required Hazard Analysis – fencing, etc?	NA	
Does the project have Quiet Zones?	NA	
Does FRA attend Quarterly Review Meetings?	NA	